

WHAT IS CLAIMED IS:

1. An ultrasonic signaling interactive toy, comprising:
an ultrasonic transceiver for transmitting and receiving ultrasonic
signals; and
an interactive toy having at least one internal transceiver
capable of producing a response after receiving an ultrasonic signal.
2. The interactive toy of claim 1, wherein the response is audible sound.
3. The interactive toy of claim 2, wherein the audible sound output is generated
by a loudspeaker.
4. The interactive toy of claim 2, wherein the audible sound output is generated
by a buzzer.
5. The interactive toy of claim 1, wherein the response is an image output.
6. The interactive toy of claim 5, wherein the image output is displayed on a
display device.
7. The interactive toy of claim 1, wherein the response is the production of some
motion.
8. The interactive toy of claim 1, wherein the ultrasonic signal includes a
plurality of target messages for informing a plurality of interaction toys at the same time
so that each interactive toy can produce a corresponding response.
9. The interactive toy of claim 1, wherein the ultrasonic signal includes digitally
modulated signal.
10. The interactive toy of claim 1, wherein the ultrasonic transceiver further
includes a fixed interval sampling circuit for receiving the ultrasonic signal and
sampling at fixed intervals so that a corresponding digital signal is output when the

sample contains an ultrasonic signal and a reverse-phase digital signal is output when the sample does not contain an ultrasonic signal.

11. The interactive toy of claim 1, wherein the ultrasonic transceiver further includes a wave inspection circuit for receiving the ultrasonic signal and converting the ultrasonic signal back to the original digital signal before signal modulation.

12. The interactive toy of claim 1, wherein the interactive toy further includes an ultrasonic energy converter for transmitting and receiving ultrasonic signals at different times.

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